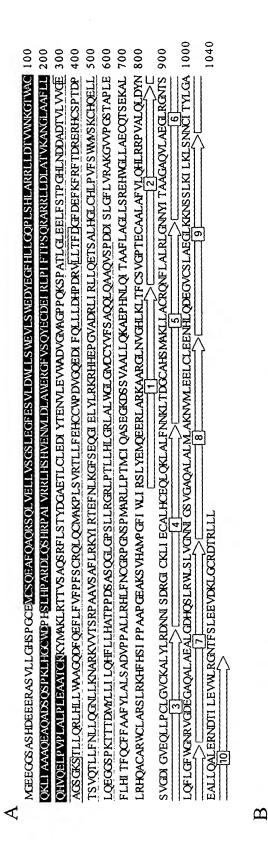
TOOI4FEGG .. TOEGG



RRS

NBD

CARD1 CARD2

5

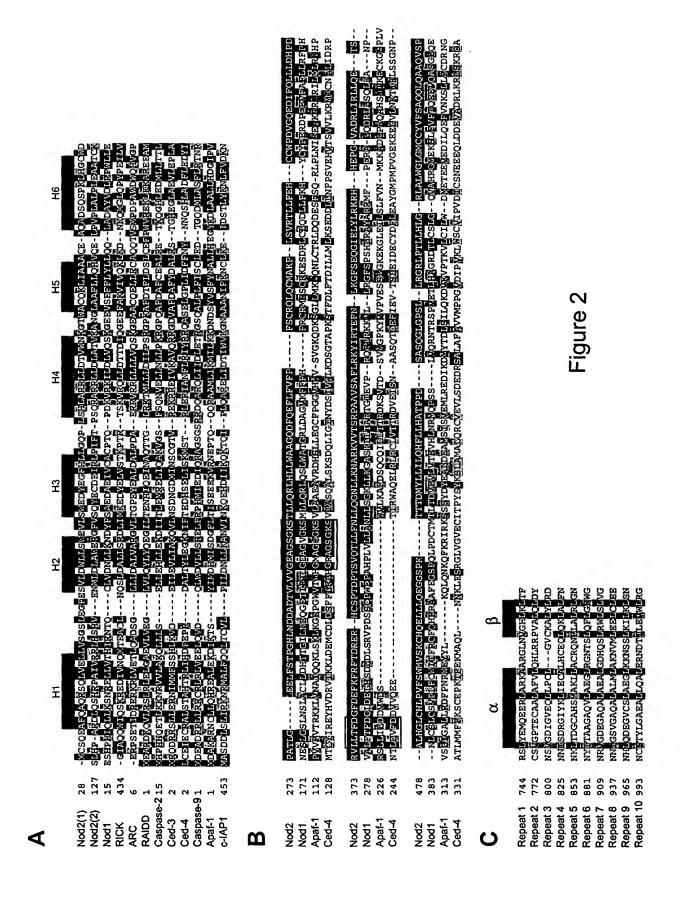
P-loop

220

124 127

28

Figure 1



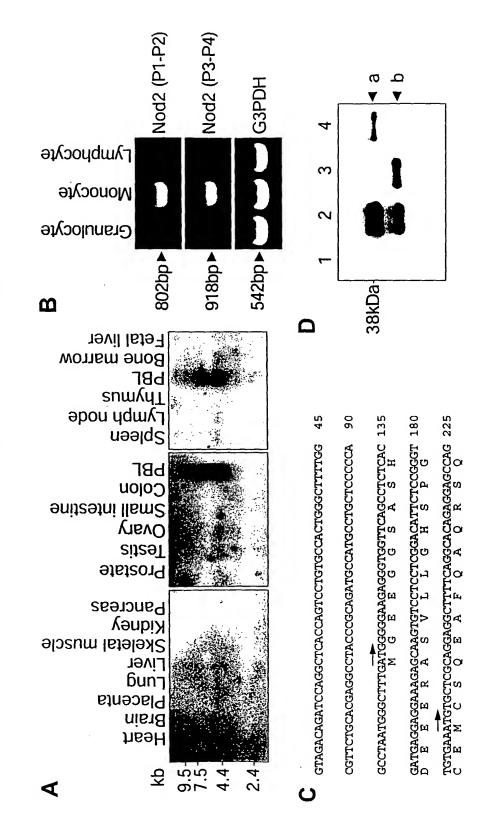


Figure 3

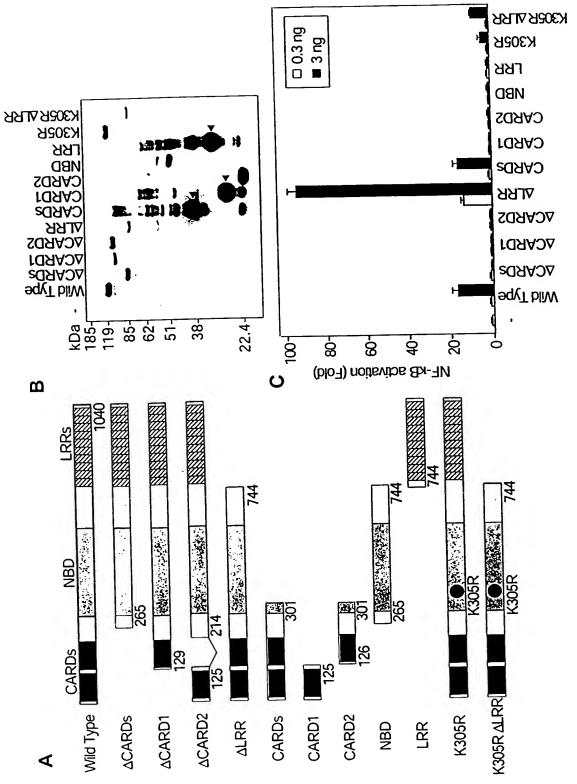


Figure 4

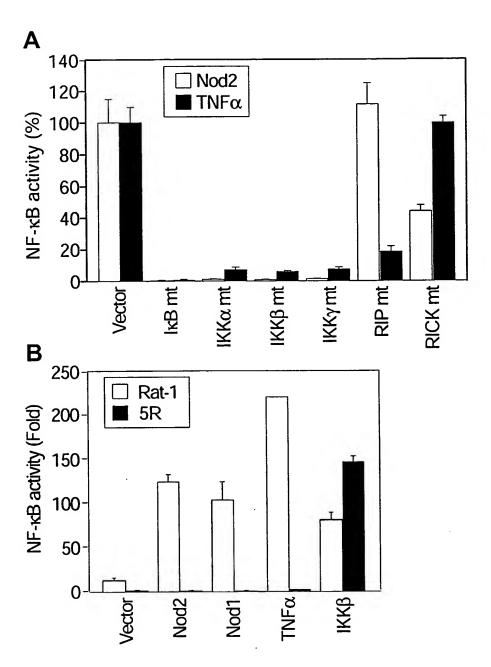
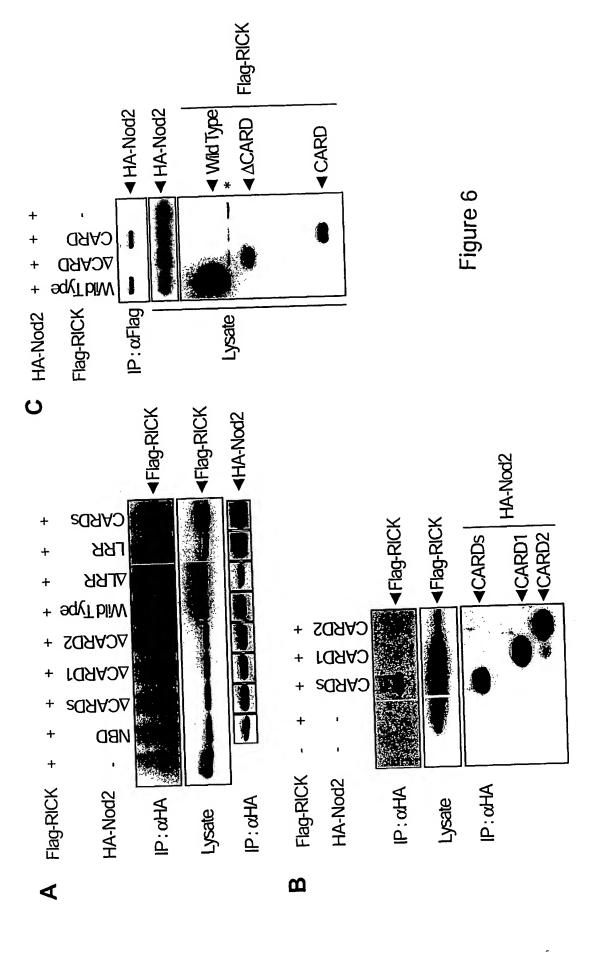


Figure 5



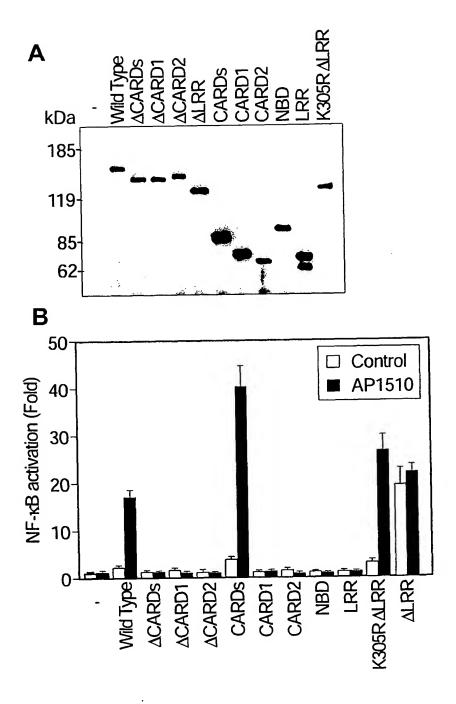


Figure 7

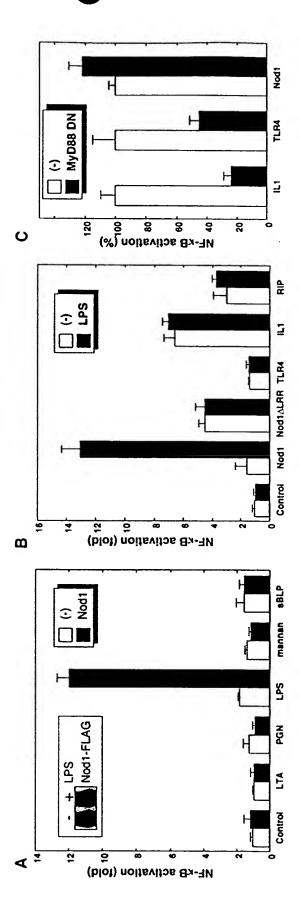


Figure 8

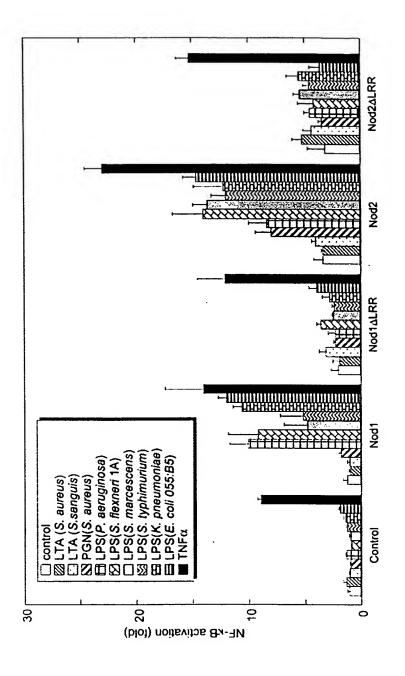


Figure 9

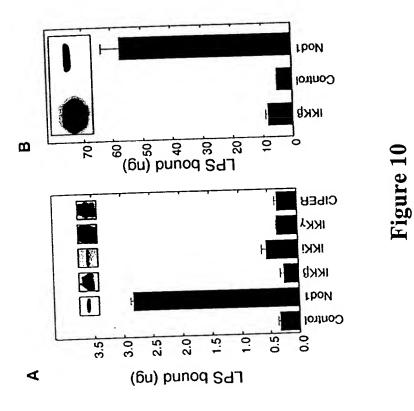


Figure 11

SEQ ID NO:33

Nod2 cDNA sequence

60	tgcacaaggc	tttggcgttc	ccactgggct	cagtcctgtg	ccaggctcac	gtagacagat
120	ggaagagggt	ctttgatggg	gcctaatggg	tgctcccca	atgccatgcc	ctacccgcag
180	ttctccgggt	tcctcggaca	gcaagtgtcc	ggaggaaaga	ctcacgatga	gttcagcct
240	cgagctgctg	gccagctggt	gcacagagga	ggcttttcag	gctcgcagga	gtgaaatgt
300	ctgggaggtc	ggctgctgtc	gtcctggact	cttcgagagt	ccctggaagg	gtctcagggt
360	ccacttggcc	agcctctctc	ctcctgggcc	gggcttccac	aggactacga	ctctcctggg
420	gctcatcgcg	cctgtcagaa	ggtacttggg	ctggaataag	tggacaccgt	aggegeette
480	ctgggacccc	tgcatggctg	tcccccaagc	cgacagccag	aagcccaggc	gctgcccaag
540	caggaggctc	cagccattgt	agtcaccggc	agacctgcag	acccagcccg	cactegetee
600	cagccagtat	ggggtttcgt	gcatgggagc	gctggacctg	tggagaacat	cacagccatg
660	aaggctgctt	agagggcaag	acaccgtccc	gccgatcttc	aaatcaggtt	gaatgtgatg
720	tgttcaggaa	ttctacaaca	gctgccttcc	gaatggattg	cggtgaaagc	gatettgeca
780	tatggccaag	gcaagaagta	gctgccacat	gcctttggaa	cattggccct	ttaccagtcc
840	agcagagacg	cctatgatgg	ttcctcagta	tcagtctcgc	cggtgtctgc	ctgaggacca
900	tgtgggcatg	tctgggcaga	gtectggagg	cacagagaat	aggacatata	ctctgcctgg
960	cagcacccct	aggagetett	ctgggcctgg	cccagccacc	cgcagaagag	gctggacccc
1020	cagtggcaag	gtgaggcggg	ctggtggtgg	ggacactgtg	atgacgatgc	ggccacetca
1080	ccaggaattt	ggcaagactt	tgggctgcag	gcacttgctg	tgcagcggct	agcacgetec
1140	actctctgtg	tggccaaacc	ctgcagtgca	ctgccggcag	tcccattcag	ctctttgtct
1200	catcttccag	gtcaagaaga	cctgatgttg	ctgctgttgg	tctttgagca	cggactctac
1260	cgagttcaag	atggctttga	ttaacctttg	ccgtgtcctg	accaccctga	ttactccttg
1320	tqtccaqacc	accccacctc	teccegaceg	acqccactqc	cqqatcqtqa	ttcaggttca

1380 ctgctcttca accttctgca gggcaacctg ctgaagaatg cccgcaaggt ggtgaccagc cgtccggccg ctgtgtcggc gttcctcagg aagtacatcc gcaccgagtt caacctcaag 1440 1500 ggcttctctg aacagggcat cgagctgtac ctgaggaagc gccatcatga gcccggggtg 1560 geggacegee teateegeet getecaagag aceteageee tgeaeggttt gtgecaeetg 1620 cctgtcttct catggatggt gtccaaatgc caccaggaac tgttgctgca ggagggggg 1680 tccccaaaga ccactacaga tatgtacctg ctgattctgc agcattttct gctgcatgcc accccccag actcagette ccaaggtetg ggacccagte ttettegggg cegeeteece 1740 accetectge acctgggeag actggetetg tgggggeetgg geatgtgetg etacgtgtte 1800 1860 tragcreage agetreage agearages ageretgate acatttetet tegetteete 1920 gtgcgtgcca aaggtgtcgt gccagggagt acggcgcccc tggaattcct tcacatcact ttccagtgct tctttgccgc gttctacctg gcactcagtg ctgatgtgcc accagctttg 1980 ctcagacacc tettcaattg tggcaggeca ggcaactcac caatggccag geteetgeec 2040 2100 acqatgtgca tccaggcctc ggagggaaag gacagcagcg tggcagcttt gctgcagaag gccgagccgc acaaccttca gatcacagca gccttcctgg cagggctgtt gtcccgggag 2160 2220 cactggggcc tgctggctga gtgccagaca tctgagaagg ccctgctccg gcgccaggcc 2280 tgtgcccgct ggtgtctggc ccgcagcctc cgcaagcact tccactccat cccgccagct gcaccgggtg aggccaagag cgtgcatgcc atgcccgggt tcatctggct catccggagc 2340 2400 ctgtacgaga tgcaggagga gcggctggct cggaaggctg cacgtggcct gaatgttggg cacctcaagt tgacattttg cagtgtgggc cccactgagt gtgctgccct ggcctttgtg 2460 ctgcagcacc tccggcggcc cgtggccctg cagctggact acaactctgt gggtgacatt 2520 2580 ggcgtggagc agctgctgcc ttgccttggt gtctgcaagg ctctgtattt gcgcgataac 2640 aatatotoag accgaggoat otgoaagoto attgaatgtg otottoactg ogagoaattg cagaagttag ctctattcaa caacaaattg actgacggct gtgcacactc catggctaag 2700 2760 ctccttgcat gcaggcagaa cttcttggca ttgaggctgg ggaataacta catcactgcc gcgggagccc aagtgctggc cgagggctc cgaggcaaca cctccttgca gttcctggga 2820 2880 ttctggggca acagagtggg tgacgagggg gcccaggccc tggctgaagc cttgggtgat 2940 caccagaget tgaggtgget cageetggtg gggaacaaca ttggcagtgt gggtgeecaa gccttggcac tgatgctggc aaagaacgtc atgctagaag aactctgcct ggaggagaac 3000 3060 catctccagg atgaaggtgt atgttctctc gcagaaggac tgaagaaaaa ttcaagtttg 3120 aaaatcctga agttgtccaa taactgcatc acctacctag gggcagaagc cctcctgcag

gccccttgaaa ggaatgacac catcctggaa gtctggctcc gagggaacac tttctctcta 3180 3240 gaggaggttg acaagctcgg ctgcagggac accagactct tgctttgaag tctccgggag 3300 gatgttcgtc tcagtttgtt tgtgagcagg ctgtgagttt gggccccaga ggctgggtga catgtgttgg cagcetette aaaatgagee etgteetgee taaggetgaa ettgtttet 3360 gggaacacca taggtcacct ttattctggc agaggaggga gcatcagtgc cctccaggat 3420 3480 agacttttcc caagcctact tttgccattg acttcttccc aagattcaat cccaggatgt acaaggacag cccctcctcc atagtatggg actggcctct gctgatcctc ccaggcttcc 3540 3600 gtgtgggtca gtggggccca tggatgtgct tgttaactga gtgccttttg gtggagaggc ccggcctctc acaaaagacc ccttaccact gctctgatga agaggagtac acagaacaca 3660 3720 taattcagga agcagettte eccatgtete gaeteateca tecaggecat teccegtete tggttcctcc cctcctcctg gactcctgca cacgetcctt cctctgaggc tgaaattcag 3780 3840 aatattagtg acctcagctt tgatatttca cttacagcac ccccaaccct ggcacccagg gtgggaaggg ctacacctta gcctgccctc ctttccggtg tttaagacat ttttggaagg 3900 ggacacgtga cagccgtttg ttccccaaga cattctaggt ttgcaagaaa aatatgacca 3960 cactccagct gggatcacat gtggactttt atttccagtg aaatcagtta ctcttcagtt 4020 4080 aagcetttgg aaacageteg aetttaaaaa geteeaaatg cagetttaaa aaattaatet gggccagaat ttcaaacggc ctcactaggc ttctggttga tgcctgtgaa ctgaactctg 4140 acaacagact tetgaaatag acceacaaga ggeagtteca ttteatttgt geeagaatge 4200 4260 tttaggatgt acagttatgg attgaaagtt tacaggaaaa aaaattaggc cgttccttca 4320 aagcaaatgt cttcctggat tattcaaaat gatgtatgtt gaagcctttg taaattgtca gatgctgtgc aaatgttatt attttaaaca ttatgatgtg tgaaaactgg ttaatattta 4380 4440 taggtcactt tgttttactg tcttaagttt atactcttat agacaacatg gccgtgaact 4485 ttatgctgta aataatcaga ggggaataaa ctgttgagtc aaaac

Figure 12

SEQ ID NO:1

Nod2 cDNA sequence

60	tgcacaaggc	tttggcgttc	ccactgggct	cagtcctgtg	ccaggeteae	gtagacagat
120	ggaagagggt	ctttgatggg	gcctaatggg	tgctcccca	atgccatgcc	ctacccgcag
180	ttctccgggt	tcctcggaca	gcaagtgtcc	ggaggaaaga	ctcacgatga	ggttcagcct
240	cgagctgctg	gccagctggt	gcacagagga	ggcttttcag	gctcgcagga	tgtgaaatgt
300	ctgggaggtc	ggctgctgtc	gtcctggact	cttcgagagt	ccctggaagg	gtctcagggt
360	ccacttggcc	agcctctctc	ctcctgggcc	gggcttccac	aggactacga	ctctcctggg
420	gctcatcgcg	cctgtcagaa	ggtacttggg	ctggaataag	tggacaccgt	aggcgccttc
480	ctgggacccc	tgcatggctg	tccccaagc	cgacagccag	aagcccaggc	gctgcccaag
540	caggaggete	cagccattgt	agtcaccggc	agacctgcag	acccagcccg	cactcgctcc
600	cagccagtat	ggggtttcgt	gcatgggagc	gctggacctg	tggagaacat	cacagccatg
660	aaggctgctt	agagggcaag	acaccgtccc	gccgatcttc	aaatcaggtt	gaatgtgatg
720	tgttcaggaa	ttctacaaca	gctgccttcc	gaatggattg	cggtgaaagc	gatcttgcca
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840	agcagagacg	cctatgatgg	ttcctcagta	tcagtctcgc	cggtgtctgc	ctgaggacca
900	tgtgggcatg	tctgggcaga	gtcctggagg	cacagagaat	aggacatata	ctctgcctgg
960	cagcacccct	aggagctctt	ctgggcctgg	cccagccacc	cgcagaagag	gctggacccc
1020	cagtggcaag	gtgaggcggg	ctggtggtgg	ggacactgtg	atgacgatgc	ggccacctca
1080	ccaggaattt	ggcaagactt	tgggctgcag	gcacttgctg	tgcagcggct	agcacgetee
1140	actctctgtg	tggccaaacc	ctgcagtgca	ctgccggcag	teccatteag	ctctttgtct
1200	catcttccag	gtcaagaaga	cctgatgttg	ctgctgttgg	tctttgagca	cggactctac
1260	cgagttcaag	atggctttga	ttaacctttg	ccgtgtcctg	accaccctga	ttactccttg
1320	tqtccaqacc	accccaccto	teccegaceg	acgccactgc	cggatcgtga	ttcaggttca

ctgctcttca accttctgca gggcaacctg ctgaagaatg cccgcaaggt ggtgaccagc 1380 egteeggeeg etgtgtegge gtteeteagg aagtacatee geacegagtt caaceteaag 1440 ggcttctctg aacagggcat cgagctgtac ctgaggaagc gccatcatga gcccggggtg 1500 geggacegee teateegeet getecaagag aceteageee tgeaeggttt gtgccaeetg 1560 cctgtcttct catggatggt gtccaaatgc caccaggaac tgttgctgca ggagggggg 1620 1680 tccccaaaga ccactacaga tatgtacctg ctgattctgc agcattttct gctgcatgcc accecceag acteagette ceaaggtetg ggacceagte ttettegggg cegecteece 1740 1800 accetectge acctgggeag actggetetg tggggeetgg geatgtgetg etacgtgtte tcagcccage agetccagge ageacaggte agecetgatg acatttetet tggetteetg 1860 gtgcgtgcca aaggtgtcgt gccagggagt acggcgcccc tggaattcct tcacatcact 1920 ttccagtgct tetttgccgc gttctacctg gcactcagtg ctgatgtgcc accagetttg 1980 2040 ctcagacacc tetteaattg tggcaggcca ggcaactcac caatggccag geteetgeec 2100 acgatgtgca tccaggcctc ggagggaaag gacagcagcg tggcagcttt gctgcagaag geegageege acaacettea gateaeagea geetteetgg cagggetgtt gteeegggag 2160 2220 cactggggcc tgctggctga gtgccagaca tctgagaagg ccctgctccg gcgccaggcc tgtgcccgct ggtgtctggc ccgcagcctc cgcaagcact tccactccat cccgccagct 2280 gcaccgggtg aggccaagag cgtgcatgcc atgcccgggt tcatctggct catccggagc 2340 2400 ctgtacgaga tgcaggagga gcggctggct cggaaggctg cacgtggcct gaatgttggg cacctcaagt tgacattttg cagtgtgggc cccactgagt gtgctgccct ggcctttgtg 2460 2520 ctgcagcacc tccggcggcc cgtggccctg cagctggact acaactctgt gggtgacatt 2580 ggcgtggagc agctgctgcc ttgccttggt gtctgcaagg ctctgtattt gcgcgataac aatatctcag accgaggcat ctgcaagctc attgaatgtg ctcttcactg cgagcaattg 2640 cagaagttag ctctattcaa caacaaattg actgacggct gtgcacactc catggctaag 2700 ctccttgcat gcaggcagaa cttcttggca ttgaggctgg ggaataacta catcactgcc 2760 gegggageee aagtgetgge egaggggete egaggeaaca eeteettgea gtteetggga 2820 2880 ttctggggca acagagtggg tgacgagggg gcccaggccc tggctgaagc cttgggtgat caccagaget tgaggtgget cageetggtg gggaacaaca ttggcagtgt gggtgeecaa 2940 3000 geettggeac tgatgetgge aaagaacgte atgetagaag aactetgeet ggaggagaac catctccagg atgaaggtgt atgttctctc gcagaaggac tgaagaaaaa ttcaagtttg 3060 aaaatcctga agttgtccaa taactgcatc acctacctag gggcagaagc cctcctgcag 3120

3180 gcccttgaaa ggaatgacac catcctggaa gtctggctcc gagggaacac tttctctcta gaggaggttg acaagctcgg ctgcagggac accagactct tgctttgaag tctccgggag 3240 3300 gatgttcgtc tcagtttgtt tgtgagcagg ctgtgagttt gggccccaga ggctgggtga 3360 catgtgttgg cagcctcttc aaaatgagcc ctgtcctgcc taaggctgaa cttgttttct gggaacacca taggtcacct ttattctggc agaggaggga gcatcagtgc cctccaggat 3420 agacttttcc caagcctact tttgccattg acttcttccc aagattcaat cccaggatgt 3480 acaaggacag ccctcctcc atagtatggg actggcctct gctgatcctc ccaggcttcc 3540 3600 gtgtgggtca gtggggccca tggatgtgct tgttaactga gtgccttttg gtggagaggc 3660 ccggcctctc acaaaagacc ccttaccact gctctgatga agaggagtac acagaacaca taattcagga agcagctttc cccatgtctc gactcatcca tccaggccat tccccgtctc 3720 3780 tggttcctcc cctcctcctg gactcctgca cacgctcctt cctctgaggc tgaaattcag aatattagtg acctcagctt tgatatttca cttacagcac ccccaaccct ggcacccagg 3840 3900 gtgggaaggg ctacacctta gcctgccctc ctttccggtg tttaagacat ttttggaagg ggacacgtga cagccgtttg ttccccaaga cattctaggt ttgcaagaaa aatatgacca 3960 cactocaget gggatcacat gtggactttt atttccagtg aaatcagtta ctcttcagtt 4020 4080 aagcetttgg aaacagetcg actttaaaaa getecaaatg cagetttaaa aaattaatet gggccagaat ttcaaacggc ctcactaggc ttctggttga tgcctgtgaa ctgaactctg 4140 acaacagact tetgaaatag acceacaaga ggeagtteea ttteatttgt geeagaatge 4200 4260 tttaggatgt acagttatgg attgaaagtt tacaggaaaa aaaattaggc cgttccttca aagcaaatgt cttcctggat tattcaaaat gatgtatgtt gaagcctttg taaattgtca 4320 4380 gatgctgtgc aaatgttatt attttaaaca ttatgatgtg tgaaaactgg ttaatattta taggtcactt tgttttactg tcttaagttt atactettat agacaacatg gccgtgaact 4440 ttatgctgta aataatcaga ggggaataaa ctgttgagtc aaaac 4485

Figure 13 SEQ ID NO:2

MGEEGGSASH DEEERASVLL GHSPGCEMCS QEAFQAQRSQ LVELLVSGSL EGFESVLDWL LSWEVLSWED YEGFHLLGQP LSHLARRLLD TVWNKGTWAC QKLIAAAQEA QADSQSPKLH GCWDPHSLHP ARDLQSHRPA IVRRLHSHVE NMLDLAWERG FVSQYECDEI RLPIFTPSQR ARRLLDLATV KANGLAAFLL QHVQELPVPL ALPLEAATCK KYMAKLRTTV SAQSRFLSTY DGAETLCLED IYTENVLEVW ADVGMAGPPQ KSPATLGLEE LFSTPGHLND DADTVLVVGE AGSGKSTLLQ RLHLLWAAGQ DFQEFLFVFP FSCRQLQCMA KPLSVRTLLF EHCCWPDVGQ EDIFQLLLDH PDRVLLTFDG FDEFKFRFTD RERHCSPTDP TSVQTLLFNL LQGNLLKNAR KVVTSRPAAV SAFLRKYIRT EFNLKGFSEQ GIELYLRKRH HEPGVADRLI RLLQETSALH GLCHLPVFSW MVSKCHQELL LQEGGSPKTT TDMYLLILQH FLLHATPPDS ASQGLGPSLL RGRLPTLLHL GRLALWGLGM CCYVFSAQQL QAAQVSPDDI SLGFLVRAKG VVPGSTAPLE FLHITFQCFF AAFYLALSAD VPPALLRHLF NCGRPGNSPM ARLLPTMCIQ ASEGKDSSVA ALLQKAEPHN LQITAAFLAG LLSREHWGLL AECQTSEKAL LRRQACARWC LARSLRKHFH SIPPAAPGEA KSVHAMPGFI WLIRSLYEMQ EERLARKAAR GLNVGHLKLT FCSVGPTECA ALAFVLQHLR RPVALQLDYN SVGDIGVEQL LPCLGVCKAL YLRDNNISDR GICKLIECAL HCEQLQKLAL FNNKLTDGCA HSMAKLLACR QNFLALRLGN NYITAAGAQV LAEGLRGNTS LQFLGFWGNR VGDEGAQALA EALGDHQSLR WLSLVGNNIG SVGAQALALM LAKNVMLEEL CLEENHLQDE GVCSLAEGLK KNSSLKILKL SNNCITYLGA EALLQALERN DTILEVWLRG NTFSLEEVDK LGCRDTRLLL *

Figure 14

SEQ ID NO:3

MCSQEAFQAQ RSQLVELLVS GSLEGFESVL DWLLSWEVLS WEDYEGFHLL GQPLSHLARR LLDTVWNKGT WACOKLIAAA OEAOADSOSP KLHGCWDPHS LHPARDLQSH RPAIVRRLHS HVENMLDLAW ERGFVSOYEC DEIRLPIFTP SORARRLLDL ATVKANGLAA FLLQHVQELP VPLALPLEAA TCKKYMAKLR TTVSAQSRFL STYDGAETLC LEDIYTENVL EVWADVGMAG PPQKSPATLG LEELFSTPGH LNDDADTVLV VGEAGSGKST LLQRLHLLWA AGQDFQEFLF VFPFSCROLO CMAKPLSVRT LLFEHCCWPD VGQEDIFQLL LDHPDRVLLT FDGFDEFKFR FTDRERHCSP TDPTSVQTLL FNLLQGNLLK NARKVVTSRP AAVSAFLRKY IRTEFNLKGF SEQGIELYLR KRHHEPGVAD RLIRLLQETS ALHGLCHLPV FSWMVSKCHQ ELLLQEGGSP KTTTDMYLLI LQHFLLHATP PDSASQGLGP SLLRGRLPTL LHLGRLALWG LGMCCYVFSA QQLQAAQVSP DDISLGFLVR AKGVVPGSTA PLEFLHITFQ CFFAAFYLAL SADVPPALLR HLFNCGRPGN SPMARLLPTM CIQASEGKDS SVAALLQKAE PHNLQITAAF LAGLLSREHW GLLAECQTSE KALLRRQACA RWCLARSLRK HFHSIPPAAP GEAKSVHAMP GFIWLIRSLY EMQEERLARK AARGLNVGHL KLTFCSVGPT ECAALAFVLQ HLRRPVALQL DYNSVGDIGV EQLLPCLGVC KALYLRDNNI SDRGICKLIE CALHCEQLQK LALFNNKLTD GCAHSMAKLL ACRONFLALR LGNNYITAAG AQVLAEGLRG NTSLQFLGFW GNRVGDEGAQ ALAEALGDHQ SLRWLSLVGN NIGSVGAQAL ALMLAKNVML EELCLEENHL QDEGVCSLAE GLKKNSSLKI LKLSNNCITY LGAEALLQAL ERNDTILEVW LRGNTFSLEE VDKLGCRDTR LLL*

Figure 15 SEQ ID NO:34

Nod2a AA sequence, Mutant

MGEEGGSASH DEEERASVLL GHSPGCEMCS OEAFOAORSO LVELLVSGSL EGFESVLDWL LSWEVLSWED YEGFHLLGQP LSHLARRLLD TVWNKGTWAC QKLIAAAQEA QADSQSPKLH GCWDPHSLHP ARDLOSHRPA IVRRLHSHVE NMLDLAWERG FVSQYECDEI RLPIFTPSQR ARRLLDLATV KANGLAAFLL QHVQELPVPL ALPLEAATCK KYMAKLRTTV SAQSRFLSTY DGAETLCLED IYTENVLEVW ADVGMAGPPQ KSPATLGLEE LFSTPGHLND DADTVLVVGE AGSGKSTLLQ RLHLLWAAGQ DFQEFLFVFP FSCRQLQCMA KPLSVRTLLF EHCCWPDVGQ EDIFQLLLDH PDRVLLTFDG FDEFKFRFTD RERHCSPTDP TSVQTLLFNL LQGNLLKNAR KVVTSRPAAV SAFLRKYIRT EFNLKGFSEQ GIELYLRKRH HEPGVADRLI RLLQETSALH GLCHLPVFSW MVSKCHQELL LQEGGSPKTT TDMYLLILQH FLLHATPPDS ASQGLGPSLL RGRLPTLLHL GRLALWGLGM CCYVFSAQQL QAAQVSPDDI SLGFLVRAKG VVPGSTAPLE FLHITFQCFF AAFYLALSAD VPPALLRHLF NCGRPGNSPM ARLLPTMCIQ ASEGKDSSVA ALLQKAEPHN LQITAAFLAG LLSREHWGLL AECQTSEKAL LRRQACARWC LARSLRKHFH SIPPAAPGEA KSVHAMPGFI WLIRSLYEMQ EERLARKAAR GLNVGHLKLT FCSVGPTECA ALAFVLQHLR RPVALQLDYN SVGDIGVEQL LPCLGVCKAL YLRDNNISDR GICKLIECAL HCEQLOKLAL FNNKLTDGCA HSMAKLLACR ONFLALRLGN NYITAAGAQV LAEGLRGNTS LQFLGFWGNR VGDEGAQALA EALGDHQSLR WLSLVGNNIG SVGAQALALM LAKNVMLEEL CLEENHLQDE GVCSLAEGLK KNSSLKILKL SNNCITYLGA EALLQAP*

FIGURE 16

Nod2 Exon11, Wild type

cagacatgag caggatgtg ctaagggaca ggtgggcttc agtagactgg ctaactcctg

cagtctcttt aactggacag tttcaagagg aaaaccaaga atccttgaag ctcaccattg

tatcttettt tccagGTTGT CCAATAACTG CATCACCTAC CTAGGGGCAG AAGCCCTCCT

L S N N C I T Y L G A E A L L

GCAGGCCCTT GAAAGGAATG ACACCATCCT GGAAGTCTGg taaggccct gggcaggcct

Q A L E R N D T I L E V

gttttagctc tccgaacctc agtttttcta tctgtaaaat ggggtgacgg gagagaggaa

tggcagaatt ttgaggatcc cttctgattc tgacattcag tgagaatgat tctgcatgtg

Nod2 Exon11, Mutant

cagacatgag caggatgtgt ctaagggaca ggtgggcttc agtagactgg ctaactcctg

cagtctcttt aactggacag tttcaagagg aaaaccaaga atccttgaag ctcaccattg

tatcttcttt tccaggttgt CCAATAACTG CATCACCTAC CTAGGGGCAG AAGCCCTCCT

L S N N C I T Y L G A E A L L

GCAGGCCCCT TGAAAGGAAT GACACCATCC TGGAAGTCTG gtaaggccc tgggcaggcc

tgttttagct ctccgaacct cagtttttct atctgtaaaa tggggtgacg ggagagaga atggcagaat tttgaggatc ccttctgatt ctgacattca gtgagaatga ttctgcatgt

g